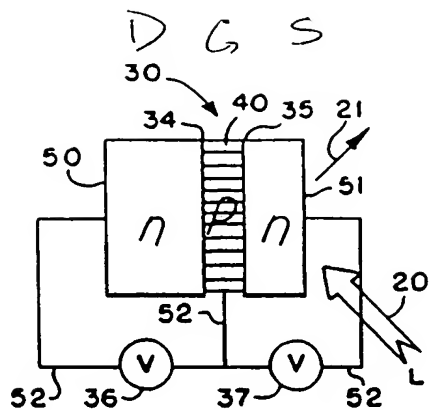
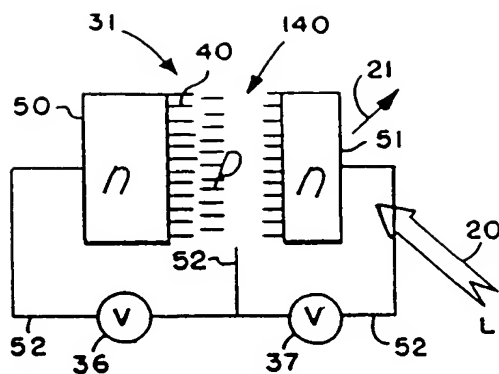


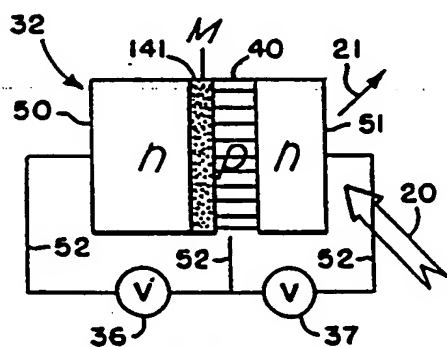
**T. 674**



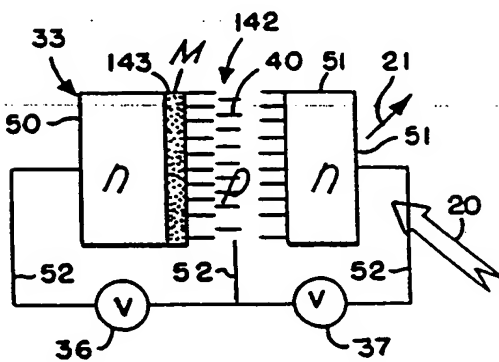
**Fig. 2**



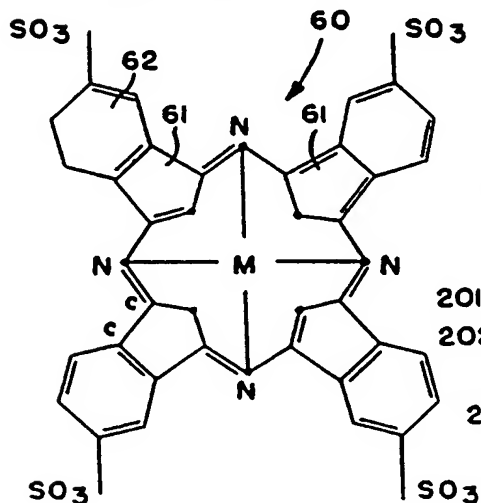
**Fig. 3**



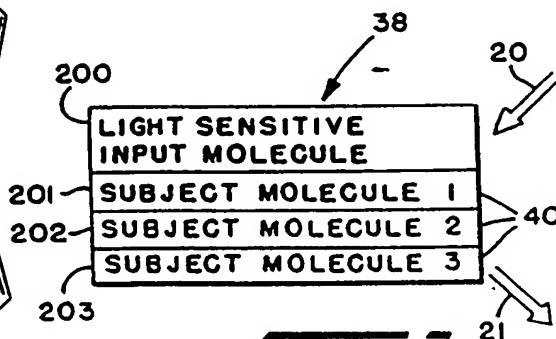
**Fig. 4**



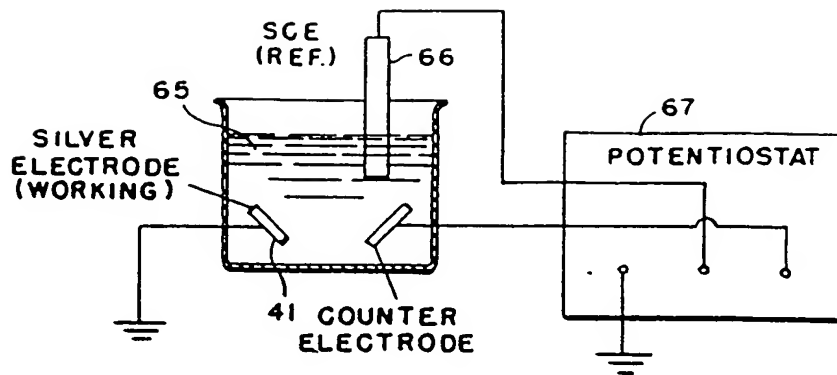
**Fig. 5**



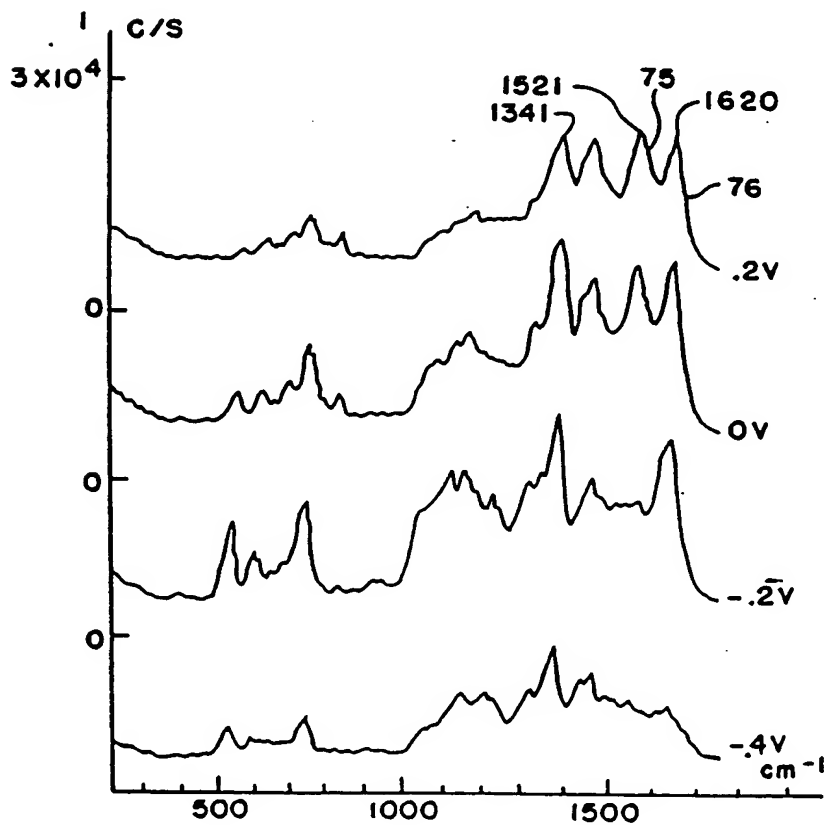
**Fig. 6**



**Fig. 7**

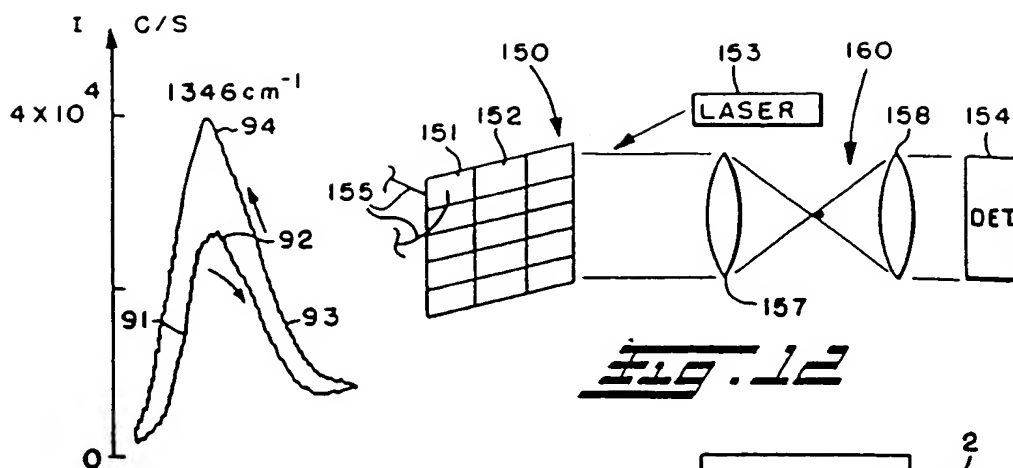


**Fig. 8**

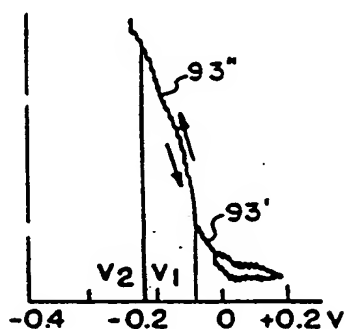


**Fig. 9**

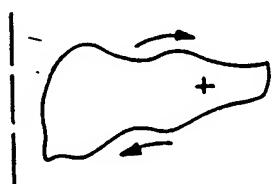
10014659-124101



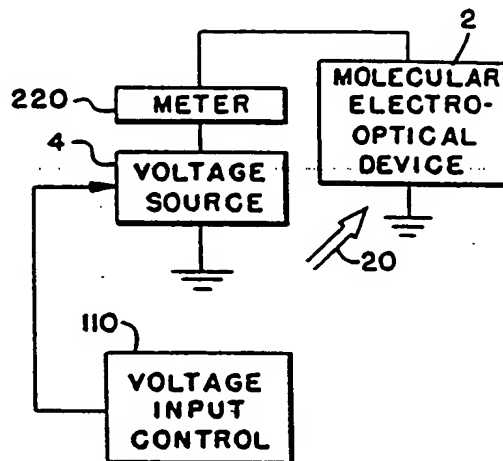
**Fig. 10a**



**Fig. 10b**



**Fig. 10c**



**Fig. 11**

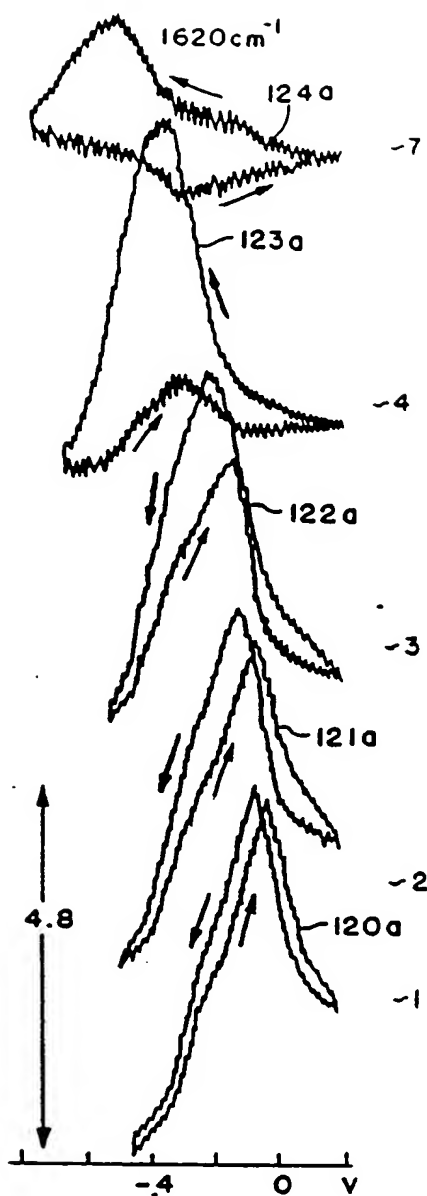


Fig. 11a

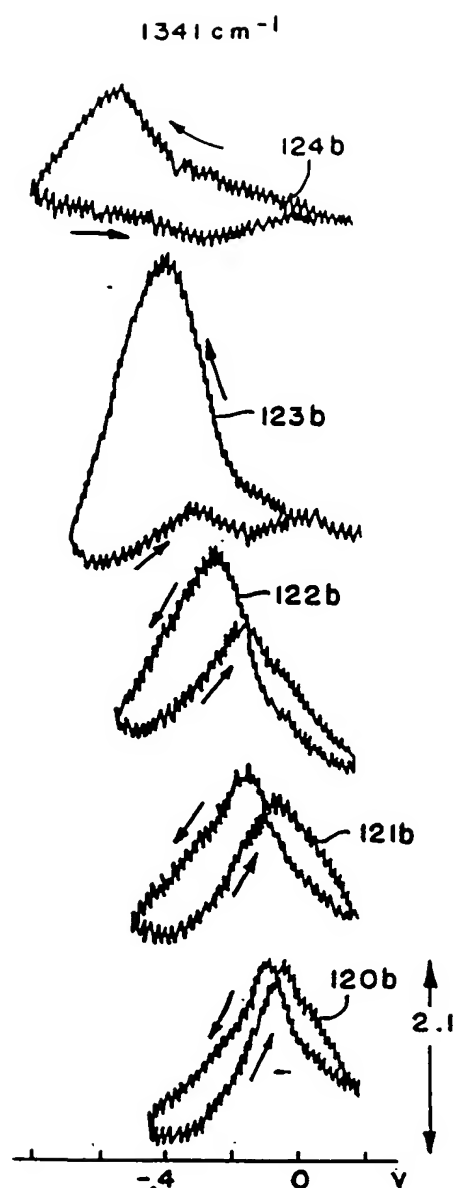


Fig. 11b

10014659.121101

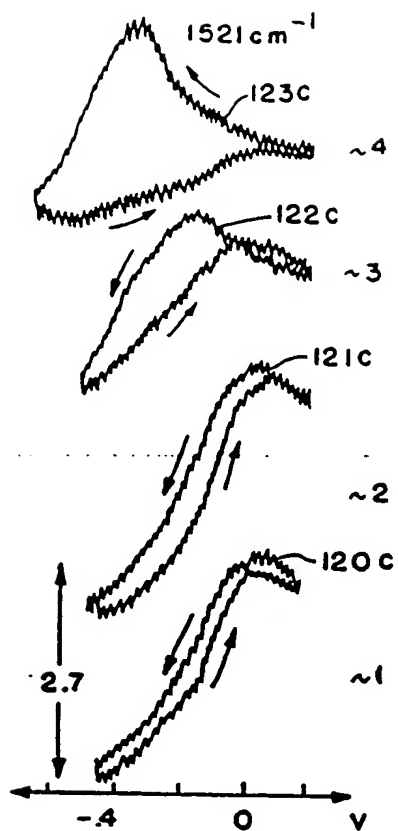


Fig. 11c

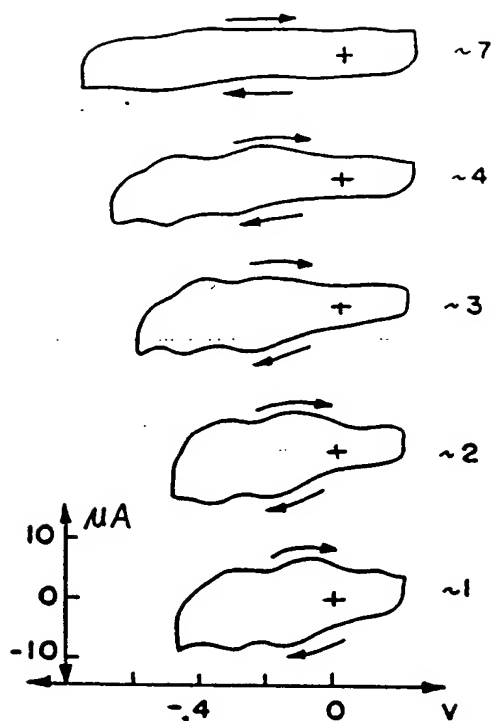


Fig. 11d

10014659, 10014661

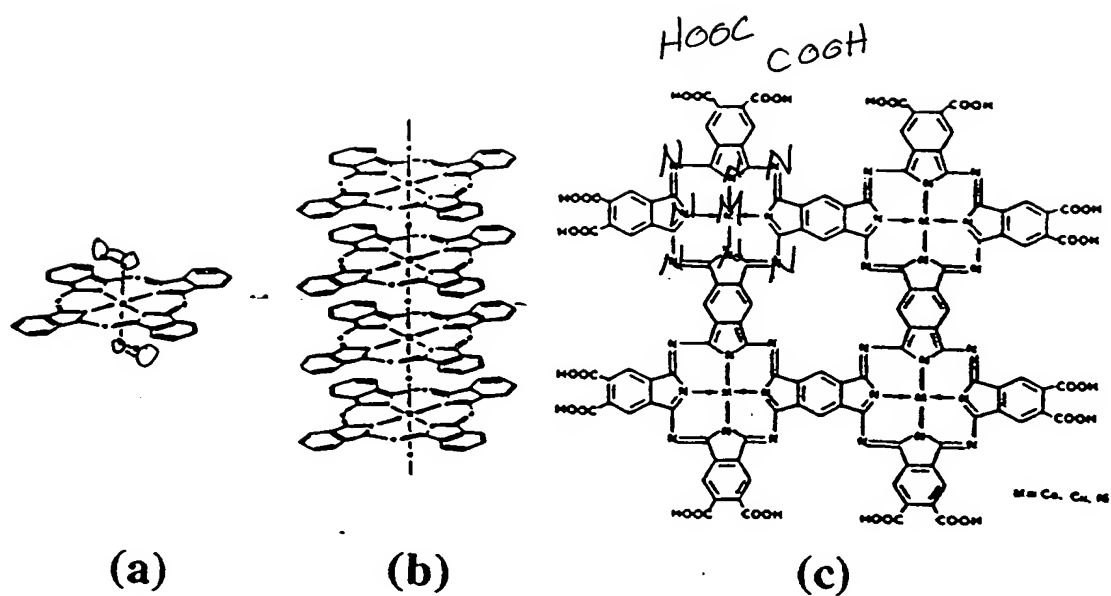
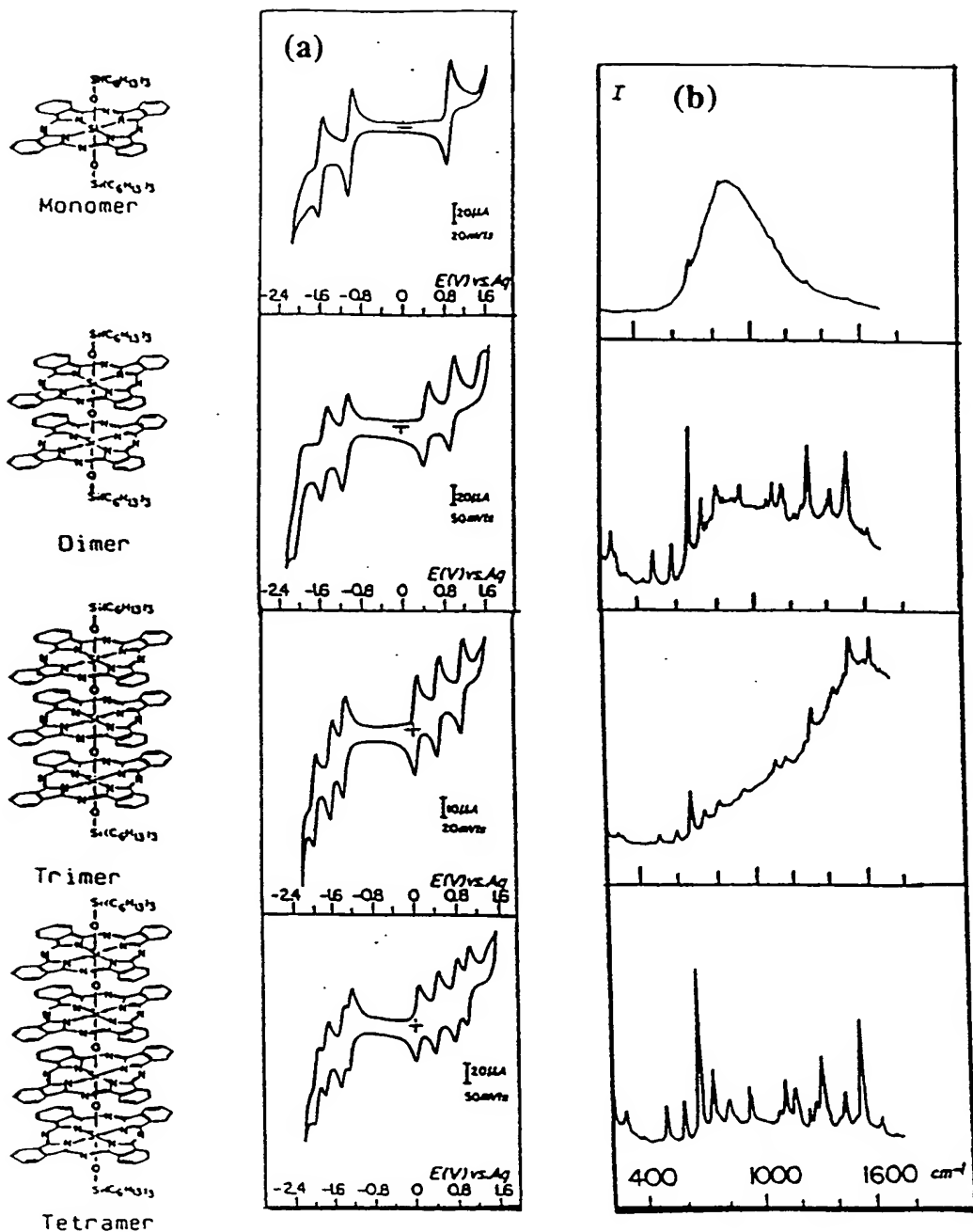


FIG. 14

*Schematic representation of different phthalocyanine structures. (a) Monomer, (b) ring stacked and (c) polymer sheet.*

F16.15



Electro-optical properties of oxygen bridged  $(O-Si-Pc)_n$  for  $n=1, 2, 3$  and  $4$ . (Middle) Cyclic voltammograms obtained from  $10^{-3}M$   $(O-Si-Pc)_n$  in  $0.1M$  tetra-*n*-butylammonium perchlorate in  $CH_2Cl_2$  adsorbed on a platinum electrode and (Right) depolarized resonant surface-enhanced Raman spectra obtained from  $(O-Si-Pc)_n$  adsorbed on a silver electrode at  $0 \text{ V}$  versus SCE. Laser excitation at  $632.8 \text{ nm}$  and  $20 \text{ mW}$  output power. The electrolyte is  $0.05M$   $Na_2SO_4$  saturated with argon gas.



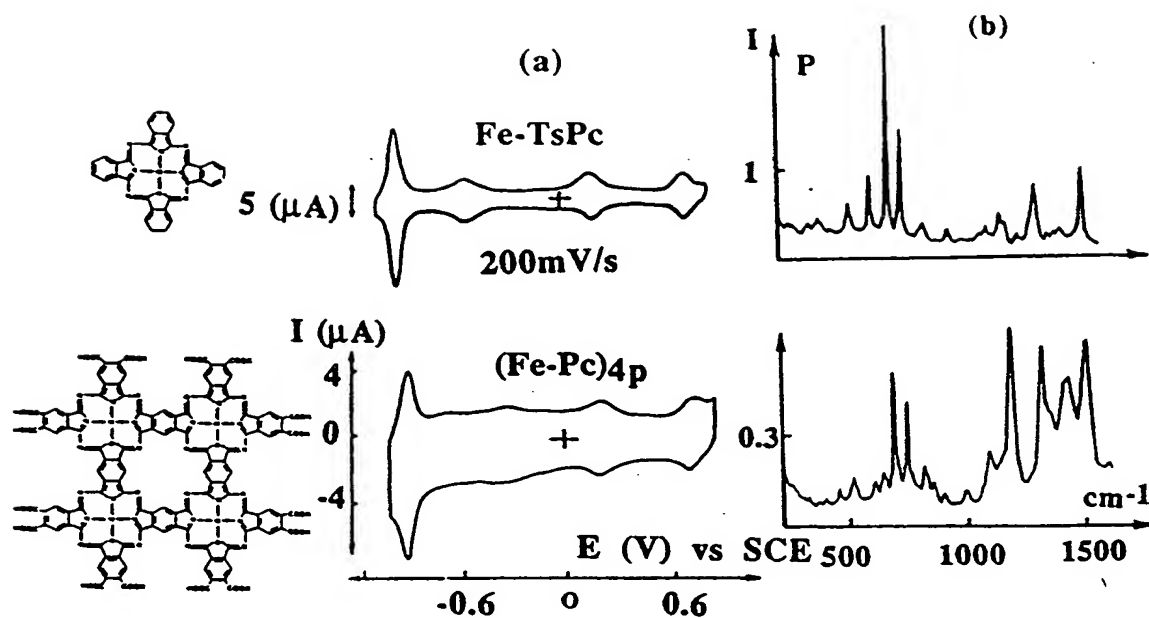


FIG. 16

Electro-optical properties of Fe-TsPc monomer and polymeric sheet (Fe-Pc)<sub>4p</sub>: (a) Cyclic voltammograms; (b) surface-enhanced resonant Raman spectra. Laser excitation at 632.8 nm with 20 mW output power.

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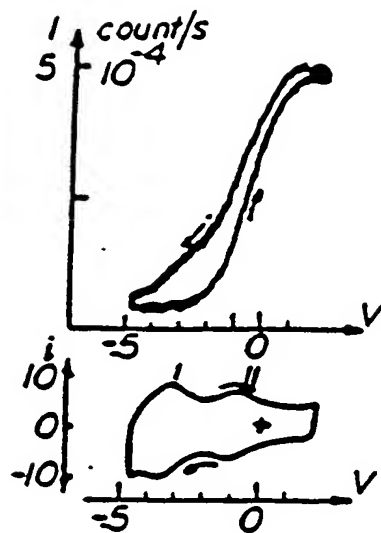


FIG. 17

*A curve representing the pulse code firing rate of a neuron obtained from Fe-TsPc adsorbed on a silver electrode.*

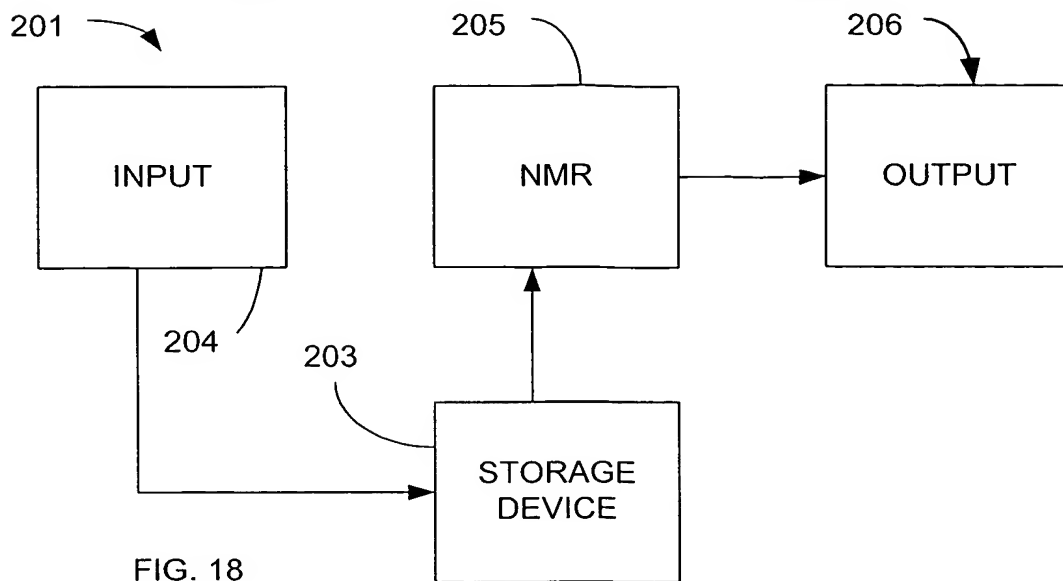


FIG. 18

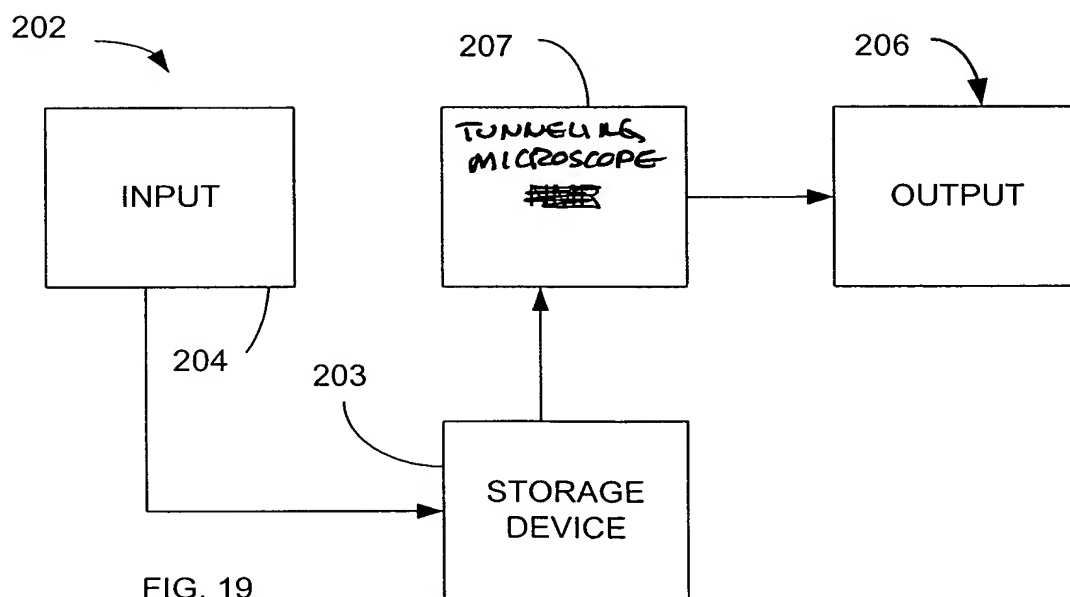


FIG. 19